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IN THE CLAIMS

1. (Currently Amended) A fiber reinforced composite material comprising: a fiber reinforced polymer substrate; a first polymeric layer coating the fiber reinforced polymer substrate for joining two different polymeric composites, the first polymeric layer being free of fibers and particulate; a second polymeric layer coating the first polymeric layer, the second polymeric layer comprising a polymeric matrix and a particulate within the polymeric matrix, wherein the particulate in the second polymeric layer is at least one material selected from the group consisting of metals, ceramics, and cermets; and at least one thermally sprayed material coating the second polymeric layer to form an adherent multi-layer coating attached to the fiber reinforced polymer substrate, the multi-layer coating being attached to the fiber reinforced polymer substrate with a tensile strength of at least about 10 MPa.

2. (Original) The fiber reinforced composite of claim 1 wherein the first polymeric layer is a material selected from the group consisting of epoxy and thermosetting resins.

3. (Previously Amended) The fiber reinforced composite of claim 1 wherein the first polymeric layer is a two component epoxy resin of bisphenol F-type epichlorohydrin and diethylenetriamine.

4. (Cancelled)

5. (Original) The fiber reinforced composite of claim 1 wherein the particulate is a material selected from at least one of the following groups: Group I, aluminum, nickel, iron, chromium, and cobalt; Group II, aluminum-base, nickel-base, iron-base, chromium-base, and cobalt-base alloys; Group III, aluminum, chromium, zirconium and silicon oxides; Group IV, aluminum, chromium, zirconium and silicon

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compounds; Group V, chromium, tungsten, boron, silicon carbides; and Group VI, boron and chromium nitrides.

6. (Original) The fiber reinforced composite of claim 1 wherein the second polymeric layer contains about 20 to 85 weight percent particulate.

7. (Original) The fiber reinforced composite of claim 1 wherein the second polymeric layer contains about 60 to 80 weight percent particulate.

8. (Cancelled)

9. (Original) The fiber reinforced composite of claim 1 wherein the size of the particulate material in the second layer is less than about 500 μm .

10. (Original) The fiber reinforced composite of claim 1 wherein the first polymeric layer has a thickness of about 0.002 to 0.127 mm and the second polymeric layer has a thickness of about 0.050 to 3.2 mm.

11. (Currently Amended) A fiber reinforced composite material comprising: a fiber reinforced polymer substrate; a first epoxy layer coating the fiber reinforced polymer substrate for joining two different polymeric composites, the first epoxy layer being free of fibers and particulate; a second epoxy layer coating the first epoxy layer, the second epoxy layer comprising an epoxy matrix and a particulate within the epoxy matrix, wherein the particulate in the second epoxy layer is at least one material selected from the group consisting of metals, ceramics, and cermets; and at least one thermally sprayed material coating the second epoxy layer to form an adherent multi-layer coating attached to the fiber reinforced polymer substrate, the

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multi-layer coating being attached to the fiber reinforced polymer substrate with a tensile strength of at least about 10 MPa.

12. (Original) The fiber reinforced composite of claim 11 wherein the first epoxy layer has a thickness of about 0.005 to 0.076 mm and the second epoxy layer has a thickness of about 0.5 to 1.27 mm.

13. (Previously Amended) The fiber reinforced composite of claim 12 wherein the first and second epoxy material is a bisphenol F-type epichlorohydrin and diethylenetriamine, the particulate material in the second epoxy layer is aluminum or nickel, and the thermally sprayed material is chromium oxide or nickel/chromium oxide with the chromium oxide coating the nickel.

14. (Original) The fiber reinforced composite of claim 13 wherein the fiber reinforced polymer substrate contains carbon fibers.

15. (Original) The fiber reinforced composite of claim 14 wherein the fiber reinforced polymer substrate is a cylindrical roll having an outside cylindrical surface and the multi-layer coating covers the outside diameter surface of the cylindrical roll.

16. (Original) The fiber reinforced composite of claim 15 wherein the cylindrical roll consists of an article of manufacture selected from the group consisting of fluid metering rolls, rolls used in the production of paper and rolls used in film processing.

17. (Withdrawn)

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18. (Withdrawn)

19. (Withdrawn)

20. (Withdrawn)